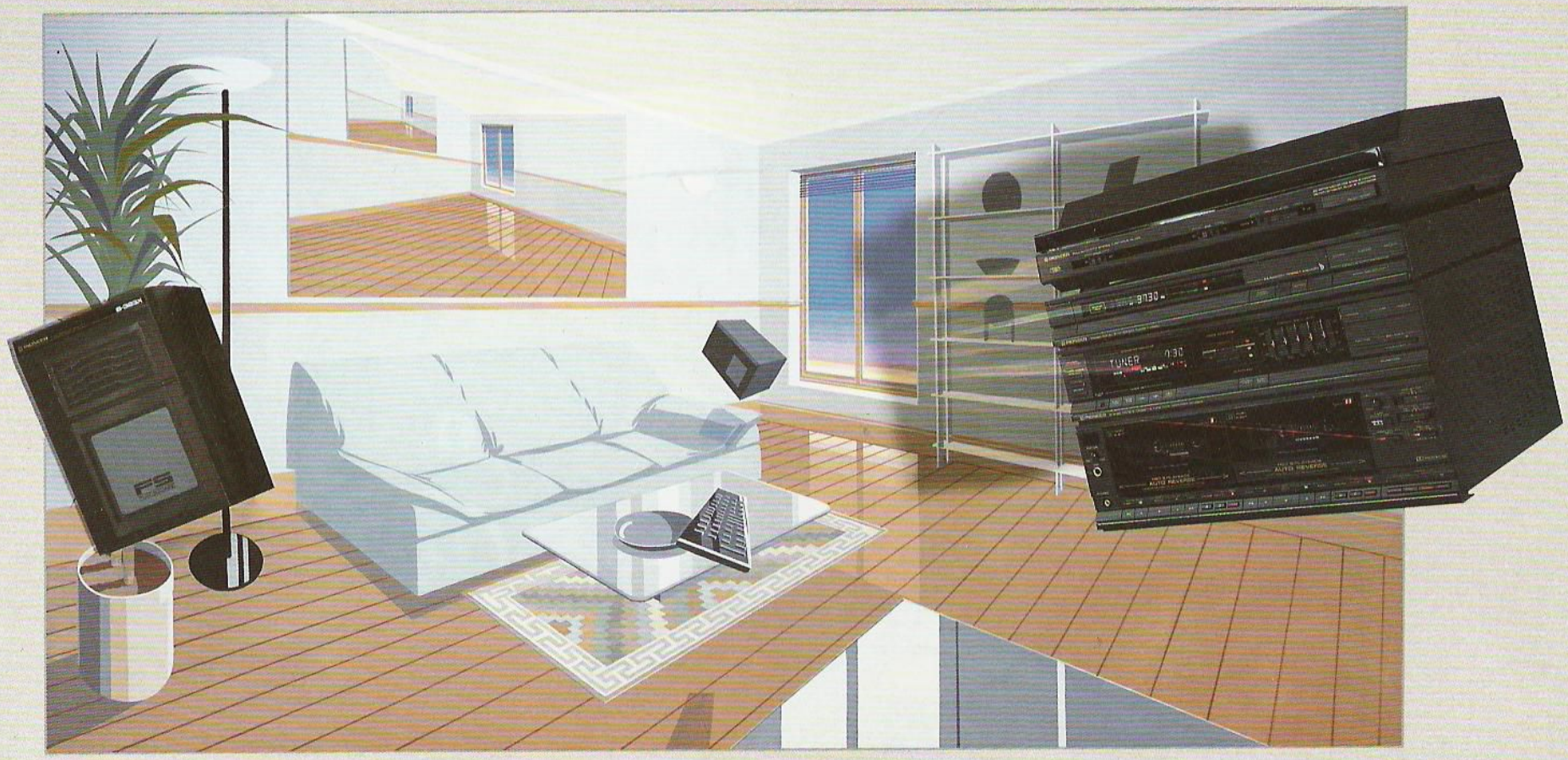
HI-FI MIDI SYSTEMS



INTEGRATED SOUND AND STYLE

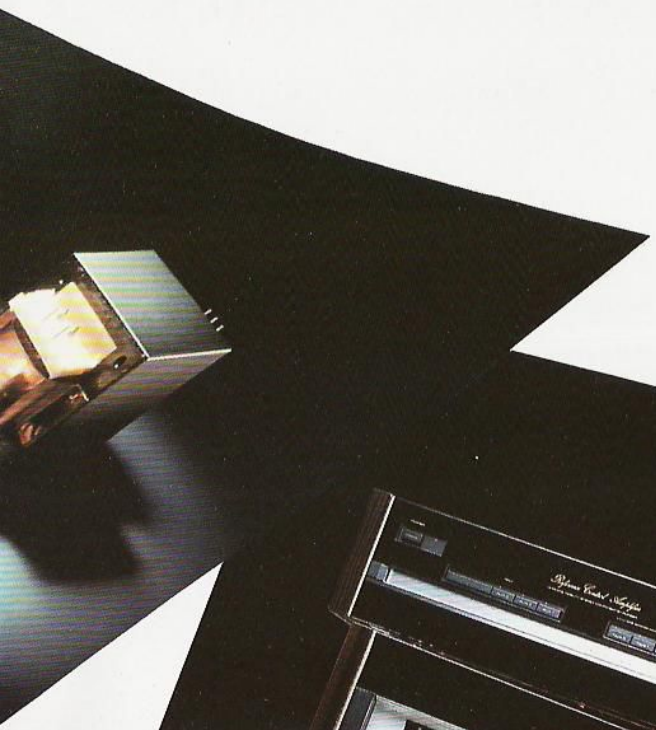
PIONEER®
The future of sound and vision.

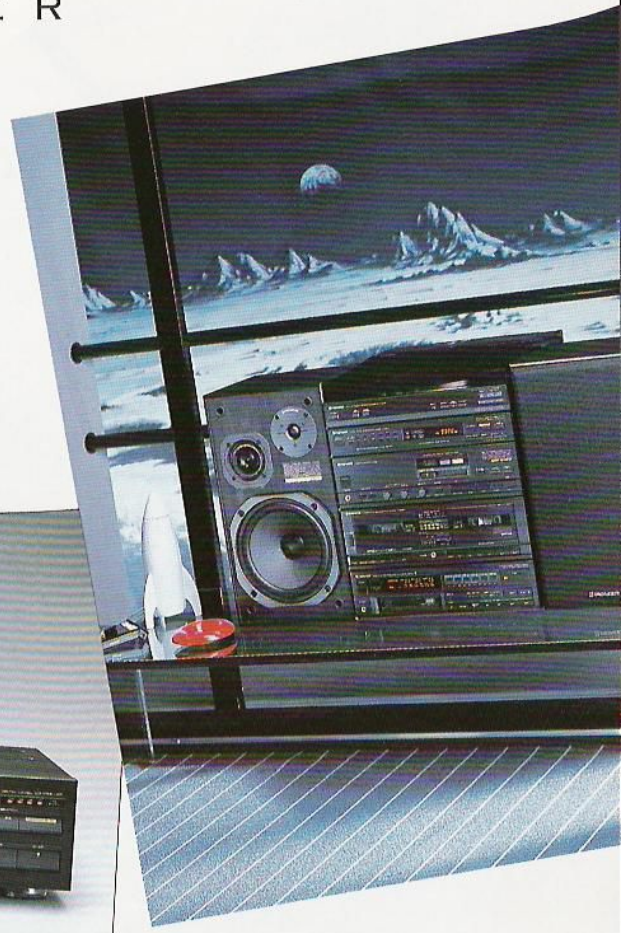
PIONEER

PICTURE YOURSELF WITH PIONEER

The future - always just beyond our grasp - sometimes has a way of becoming the Present with startling suddenness. Pioneer's advanced new Midi Systems can bring the future flying into your living room - into your life!
At Pioneer we insist on living up to our name: continually coming up with innovative designs and technological breakthroughs in our quest for ever better sound. Since the introduction of the compact disc, heralding the dawn of the digital age, all Pioneer audio components have been designed with an emphasis on clean, dynamic performance.

We have developed a number of original ideas to enhance this sound - the New Disc Stabilizer and Low-Centre-of-Gravity pick-up in the Compact Disc Players, the Non-Switching Circuit in amplifiers, the Digital Direct Decoder in tuners and the Linear-Drive Magnetic Circuit in our speaker systems. Indeed when it comes to Hi-Fi components, we've been doing a pioneering job in every phase of audio engineering. Pioneer have now applied their specialist audio manufacturing expertise to a range of elegant Hi-Fi Midi Systems, bringing superb quality sound within your reach. Choose the system which best suits your home and your lifestyle.





PIONEER
S-323X
PIONEER
S-323X
AUTO REVERSE
AUTO REVERSE

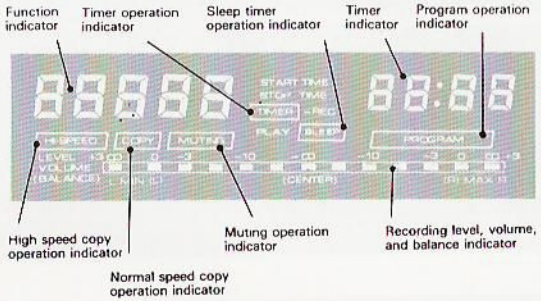
S - 9 0 0 0

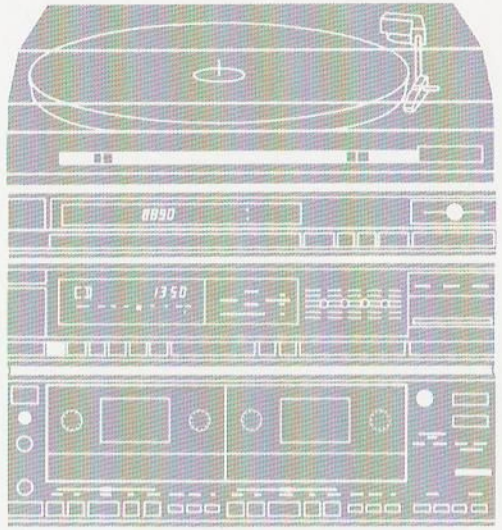
The S-9000 Hi-Fi Midi System includes many of Pioneer's most advanced technical features to give you perfect sound quality at the touch of a button. Remote controllable, not only power on/off and volume level but also the basic functions of the CD player *, the double cassette deck and the tuner.
The double reverse deck is designed with a full logic mechanism for direct feather-touch operation as well as handset control.
Program search allows you to play up to 12 programmed tracks on one tape side. Four of these tracks can be repeated giving you a total of 16 programs at the touch of a button. Programmed recording from Deck I to Deck II means Deck II creates a duplicate in accordance with the sequence programmed on Deck I.
Music search gives you the facility to repeat the song being played, or move on to the beginning of the next track.
Relay play/record enables you to play back or record continuously from Deck I to Deck II on both sides of the tapes.
By remote control, with one-touch Station Call and Memory Scan (pausing for two seconds on each station in the memory), you can choose from no fewer than 24 randomly pre-selected frequencies.
By connecting the optional S-X1A speakers, you can experience the enjoyment of surround sound. Without these speakers, the system provides a stereo-wide effect with an enhanced sound stage.
Moreover, you can enhance the low frequencies simply by pushing the Super Bass button.
A built in 3 function timer for unattented recording, wake-up play and current time indication display is also provided.

(*refer to p.13 for)

LCD Central Display

The central display communicates at a glance the main operating modes.





System features:

- remote control (even CD player* is remote controllable, turntable start/stop not remote controllable)
- programmable full logic double reverse deck
- large size, multi purpose display
- 24 random preset digital synthesized tuner
- dolby B & C noise reduction
- 5-band graphic equalizer (Rec/PB)
- High power, two-way speaker with flat diaphragm woofer
- normal/double speed tape dubbing
- sound controllers (Surround/Stereo Wide, Super Bass)
- parallel recording (simultaneous recording on both decks)
- built in timer facility
- mic mixing
- CD synchro start

Turntable PL-X99: • belt drive, fully automatic • 30 cm platter • Front panel operation • Slim design • MM-type cartridge

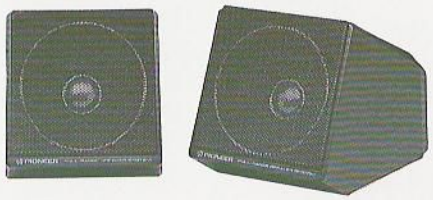
Tuner F-X99ZL: • quartz synthesized digital tuner • 24 Random presets on FM/AM (MW + LW) • Auto tuning • Mono/Stereo switch • Memory scan • Stereo & tuned indicator

Cassette deck-amplifier DC-X99Z:
Amp. sec.: • 52 watts per channel continuous power output (DIN Music) • 5 inputs (CD, phono, tuner, tape, Aux/video) • 5-band graphic equalizer for Rec. & PB • Mic mixing • Sound controllers (Surround/Stereo Wide, Super Bass) • Built-in timer facility • (once a day, on/off, sleep timer 90/60/30 min.) • Headphone socket •
Deck sec.: Full-Logic, double autoreverse stereo cassette deck • Random programme up to 12 songs • Rec. & PB on both decks • Parallel recording on Deck I and II • Normal/double speed tape dubbing • Relay play/recording • Music search • Dolby B/C noise reduction • Manual rec. level control • Auto tape selector (normal/CRO_2/metal) • Synchro recording from CD • rec. Mute

Speakers S-323X: • 2-way flat speaker system • 16 cm flat & square woofer • diffuser for tweeter

CD players (optional) refer to p 13

Remote Control Functions:
• **Cassette Deck:** Deck I: Play, Manual Reverse, FF Rew., Stop, Programming. Deck II: Play, Manual Reverse, FF/Rew., Stop, Pause, Rec., Rec.Pause, Rec.Mute • **Amplifier:** Power, Volume, muting, sleep timer, Surround/Stereo-Wide • **Tuner:** 24 Memory select, band select; memory scan • **CD:** Play, Stop, Track search, Pause, Disc select (in case of PD-X99 M) (supplied with DC-X99Z)



Speakers S-X1A (optional): • Surround sound speaker system • 8.7 cm enclosed type full range unit

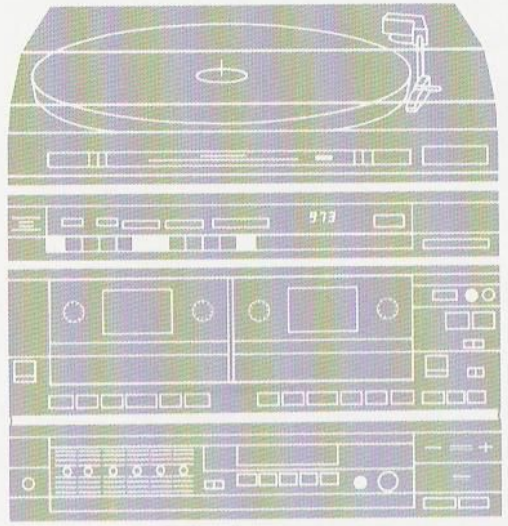
Caution: infringement of copyright and changes in specification - see back cover.

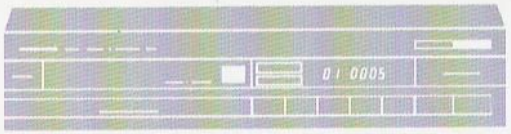
PIONEER
S-222X
AUTO REVERSE
AUTO REVERSE
PIONEER
S-222X

S - 8 0 0 0

Pioneer developped the Midi System to give more people the opportunity to enjoy the benefits of real Hi-Fi sound quality in their homes. The S-8000 achieves this with these special features.
Remote control - not only for power and volume, but also the basic functions of the CD player*, the double cassette deck and the tuner.
A powerful amplifier delivering 40 watts of continuous power per channel (DIN), and a five-band graphic equalizer for better reproduction of digital programmes.
A full-logic double reverse deck allows feather-touch operation as well as handset control.
Relay play. After reverse playback in Deck I has stopped, Deck II will automatically start in forward mode and play both side of a second cassette.
Music Search gives you the facility to repeat the song being played or move on to the beginning of the next track.
A digital tuner with 24-station random memory which you can control with a touch of the remote handset.
Mic Mixing facility which allows you to add your voice to any source as you record.
Timer record and playback capability (timer not included).
Dolby B noise reduction for cleaner recordings.

(*refer to p.13 for ☒)





System Features
- 65 watts per channel continuous power output (DIN)
- remote control (even CD player* is remote controllable, turntable start/stop not remote controllable)
- full logic double reverse cassette deck
- 24 random preset synthesized digital tuner
- Dolby B noise reduction
- 5-band graphic equalizer (Rec/PB)
- normal/double speed tape dubbing
- high power capacity, 2 way speaker
- mic mixing
- timer stand-by facility
- CD synchro start

Turntable PL-X77Z: • belt drive, auto return turntable • 30 cm platter • front panel operation • slim design • MM-type cartridge

Tuner F-X88ZL: • quartz synthesized digital tuner • 24 random presets on FM/AM (MW + LW) • mono/stereo switch • stereo & tuned indicator

Cassette deck amplifier DC-X88Z:
Amp. sec.: • 65 watts per channel continuous power output (DIN Music) • 5 inputs (CD, phono, tuner, tape, AUX/video) • 5-band graphic equalizer for Rec & PB • Mic mixing • Headphone socket • timer stand-by facility •
Deck. sec. full logic, double autoreverse deck (Rec. & PB + PB) • normal/double speed tape dubbing • synchro recording from CD • relay play • synchro copy, Deck I to Deck II • music search • Dolby B noise reduction • auto record level • auto tape selector (normal/ CRO_2/metal)

Speakers S-222X • 2-way speaker system • 16 cm woofer • flat look design

CD players (optional) refer to p. 13.

Remote control functions:
• **Cassette deck:** Deck I: Play, Manual Reverse, Stop. Deck II: Play, Manual Reverse, FF/REW • **Amplifier:** Power, Volume, Phono Function Select • **Tuner:** Memory up/down • **CD:** Play, stop, pause, track search, disc select (in case of PD-X99M) (supplied with DC- X88Z)

Caution: infringement of copyright and changes in specification - see back cover.

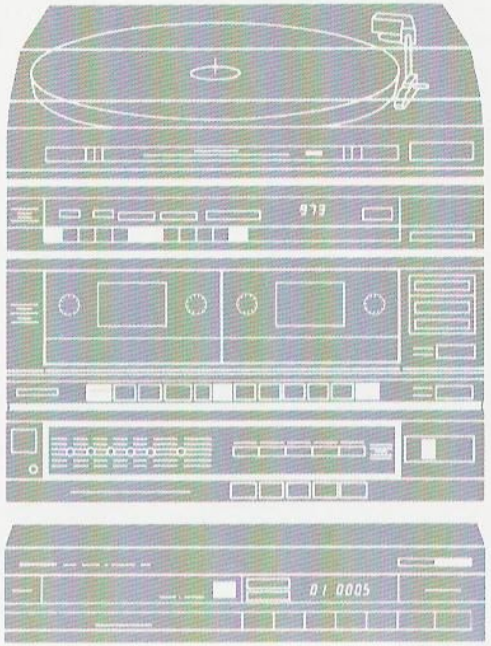
PIONEER
S-222X
PIONEER
S-222X
PLAYBACK
REC/PLAY

S - 7 0 0 0

The Midi System S-7000 provides a perfect balance of Pioneer's audio expertise with excellent performance.
A powerful 33 watts per channel (DIN) amplifier and five-band graphic equalizer give better sound reproduction of CD quality.
Double deck for tape to tape copying from Deck I to Deck II at normal or double speed which halves your recording time.
Digital tuner with 24 station random memory (FM/AM) which allows you to preselect 24 of your favourite stations. Dolby B noise reduction reduces hiss to give clearer, more precise sound.
By pushing both play switches, Deck II will start to play back automatically after Deck I reaches the end of the tape. Synchro start for Deck I to Deck II tape duplication eliminates unwanted silences when making a tape to tape recording.

S - 5 0 0 0

With the S-5000 Midi System it is now possible for everyone to enjoy real Hi-Fi quality sound.
A powerful 33 watts per channel continuous power output (DIN) and five-band graphic equalizer give better sound reproduction of CD quality
Double deck for tape to tape copying from Deck I to Deck II at normal or double speed which halves your recording time.
Dolby B noise reduction, reduces hiss during record and playback to give clearer more precise sound.
By pushing both play switches, Deck II will start to play back automatically after Deck I reaches the end of the tape.
Synchro start for Deck I to Deck II tape duplication eliminates unwanted silences when making a tape to tape recording.



System Features

S-7000
- 50 watts per channel continuous power output (DIN)
- 24 random preset digital synthesized tuner
- soft-touch double cassette deck
- 5-band graphic equalizer
- Dolby B noise reduction
- normal/double speed tape dubbing
- high power capacity, 2 way speaker
- auto tape selector

S - 5000
- 50 watts per channel continuous power output (DIN)
- soft touch double cassette deck
- 5-band graphic equalizer
- Dolby B noise reduction
- normal/double speed tape dubbing
- high power capacity, 2 way speaker
- auto tape selector
- 3-wave band tuner

Turntable PL-X77Z: • belt drive, auto return turntable • 30 cm platter • front panel operation • slim design • MM-type cartridge

Tuner F-X88ZL (for S-7000): • quartz synthesized digital tuner • 24 random presets on FM/AM (MW + LW) • mono/stereo switch • stereo & tuned indicator

Tuner F-X77ZL (for S-5000): • FM/AM (MW + LW) stereo tuner • stereo and tuned indicator

Cassette Deck amplifier DC-X77Z:
Amp. sec.: • 50 watts per channel continuous power output (DIN Music) • 5 inputs (CD, phono, Tuner, Tape, Aux/video) • 5-band graphic equalizer for PB • Headphone socket •
Deck sec.: double deck (Rec/PB + PB) • normal/double speed tape dubbing • synchro copy Deck I to Deck II • relay play • Dolby B noise reduction • auto record level • auto tape selector (normal/CRO_2)

Speakers S-222X • 2-way speaker system • 16 cm woofer • flat look design

CD players (optional) refer to p. 13.

S - 5000

Caution: infringement of copyright and changes in specification - see back cover.

PIONEER
SURROUND
Pr 39
AUTO REVERSE

A / V MIDI SYSTEMS S - 9900, S - 7700

The S-9900 and S-7700 present a new dimension in home entertainment with an exciting combination of Pioneer's top quality Hi-Fi audio equipment with high definition visual components.
All the functions of the Hi-Fi system plus power on/off for the TV set can be controlled from the comfort of your armchair by a stylishly designed master remote control.

S - 9 9 0 0

① A-X909V(BK)
- A/V Master amplifier
- 105 watts per channel continuous power output (DIN Music)
- 5 audio/4 video inputs
- mic mixing
- electronic control for volume, muting, balance and loudness
- sleep timer function
- sound effects

② CT-X707WR(BK)
- twin autoreverse deck
- Dolby B/C
- music search
- double speed synchro recording
- replay play
- auto tape selector
- auto rec. level
- rec. mute
- timer standby

③ F-X707L(BK)
- FM/AM (MW + LW) Quartz digital synthesized tuner
- 12 random presets
- auto tuning
- stereo/mono switch

④ PL-X505(BK)
- fully automatic turntable
- linear tracking
- repeat, pause and start/stop
- MM-type cartridge [14P]

⑤ S-V707X(BK)
- magnetically shielded speaker system
- 3-way, 3-speaker
- 22 cm woofer

Optional items (S-9900/S-7700)

⑥ SP-X707 Surround amplifier
⑦ GR-X505 7-band graphic equaliser
⑧ PD-X99M Multiplay CD player
⑨ SV-2102 51 cm FST colour TV.
Also available in 59 cm Square Tube (SV-2502) and 66 cm Square Tube (SV-2802)

S - 7 7 0 0

① A-X707V(BK)
- A/V Master amplifier
- 78 watts per channel continuous power output (DIN Music)
- 5 audio/4 video inputs
- mic mixing
- electrical control for volume & loudness
- sleep timer function
- sound effects

② CT-X505R(BK)
- autoreverse cassette deck
- Dolby B/C
- music search
- auto rec. level
- rec. mute
- timer standby

③ F-X 707L(BK)
- FM/AM (MW + LW) Quartz digital synthesizer tuner
- 12 random presets
- auto tuning
- stereo/mono switch

④ PL-X505(BK)
- fully automatic turntable
- linear tracking
- repeat, pause and start/stop
- MM-type cartridge [14P]

⑤ S-323X
- 2-way flat speaker system
- 16 cm flat & square woofer
- diffuser for tweeter

MASTER REMOTE COMMANDER (optional)
(Standard remote control is included in the amplifier box)

a) Master Amplifier Power on/off all system
b) TV AC power outlet-can control AC power for any television.
c) Select - cassette deck or VCR
d) Record button for cassette deck or VCR
e) Large Liquid Crystal Display - shows operated function
f) Operational buttons for components - component functions are shown on the display
g) Hold for example, allows preparation of cassette deck for taping, whilst playing compact disc music
h) Each input source (compact disc, tuner, video, etc.) and amplifier input function can be selected and switched from one to the other automatically
i) A/V (Audio/Visual) switches to either visual or audio components.
j) Provides detailed function description, used to call out and operate function (example: programme dubbing from unit 1 to unit 2)
k) Muting (on/off)
l) Master volume control
m) Shows the selected function on the TV screen (only for TV with composite video input)
n) Controls optional visual component inputs with [GR] designation
o) Sound effect mode on/off (Stereo Wide, simulated stereo and effect off)

Caution: infringement of copyright and changes in specification - see back cover. TV pictures are simulated

PIONEER COMPACT DISC PLAYER PD-X96
DISC SET
TRACK SEARCH
PROGRAM
POWER
LINEAR SERVO SYSTEM
24 STEP RANDOM PROGRAM PLAY
REPEAT
PROGRAM
TRACK MIN SEC
01 00:05
PLAY
PAUSE
OPEN/CLOSE
MANUAL SEARCH
DISC STABILIZER
PROGRAM MEMORY
STOP/CLEAR
PIONEER MULTI-PLAY COMPACT DISC PLAYER PD-X99M
POWER
OPERATION DISPLAY
REPEAT
DISC
TRACK
DISC NUMBER
TRACK NUMBER
PLAY
DISPLAY
PGM MEMORY
CHECK
CLEAR
PGM
PAUSE
STOP
EJECT
REPEAT
RANDOM PLAY
MANUAL SEARCH
TRACK SEARCH

COMPACT DISC PLAYERS

All the Midi Systems featured in this catalogue have the facility to accept either of these Pioneer CD players. They are a most valuable addition to the system of your choice.
Basic functions of both players are remote controllable through the midi system.

PD-X88

Programme up to 24 of your favourite tracks and enjoy dynamic and realistic digital sound.
The PD-X88 features Pioneer's unique Disc Stabiliser and Low-Centre-of-Gravity pick-up to improve disc tracking and to produce a pure and riche CD sound.

PD-X88
Compact Disc Player

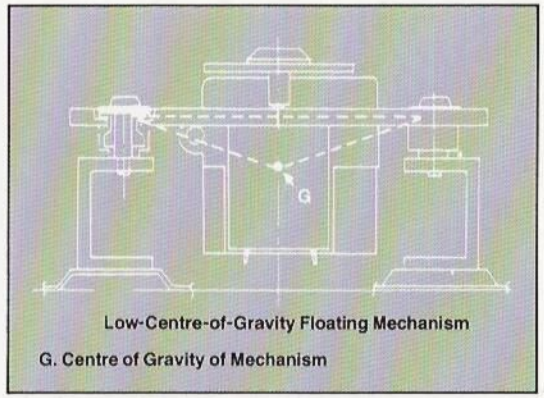
- Random-access programming for up to 24 tracks
- Repeat playing of all tracks or programmed tracks
- New Disc Stabilizer for accurate tracking
- Low Centre-of-Gravity pick-up and Linear Servo System for accurate tracking
- Six-digit LED display for time and mode (elapsed time, total time, total tracks)
- Three speed manual search
- Slim design

PD-X99M

Pioneer have combined the great sound of digital Hi-Fi with the extended-play convenience of a 6 disc magazine.
Programme up to 32 of your favourite tracks from the 6 discs and play them in any order or simply allow the player to choose selections at random.
The PD-X99M features many of our exclusive features including the unique disc stabiliser and a Low-Centre-of-Gravity pick-up to improve disc trackability.

PD-X99M
Multi-Play Compact Disc Player

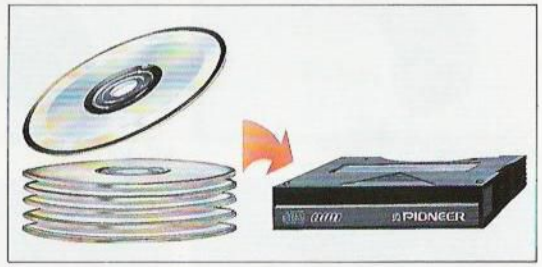
- Six Disc Magazine
- 32 steps random programming
- Direct Programming (enables you to program during playback)
- Computerized Random Play
- Low-Centre-of-Gravity pick-up and Linear Servo System for accurate tracking
- Four-mode search (disc/track, manually or by track number)
- Two-mode repeat (all discs/all programmes)
- Programmable pause
- Six-digit fluorescent display with disc indicator



Low-Centre-of-Gravity Floating Mechanism
G. Centre of Gravity of Mechanism

Low-Centre-of-Gravity Pick-Up Mechanism

In our CD players, the optical pick-up mechanism is floated from the base using rubber dampers for protection from external vibration. Moreover, we've lowered the Centre-of-Gravity of the entire pick-up mechanism. This improves the stability of the chassis which results in the best possible tracking accuracy.



6 disc CD multiplay

For non-stop digital convenience, the Pioneer PD-X99M with its CD magazine handles up to six discs automatically.
The random access facility enables you to programme up to 32 of your favourite tracks from any of the 6 discs. The multiplay cartridges are also useful for storing your favourite compact discs or categories of music together for instant listening access.

ACCESSORIES

Headphones

SE-90D(BK)

SE-50D(BK)

SE-30D(BK)

SE-L66

SE-L44

SE-L22RD

SE-L22BU

SE-L22WT

SE-650

Microphones

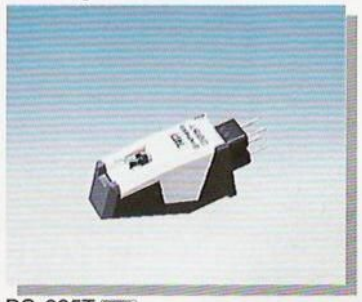
DM-61

DM-31

DM-51

DM-21

Cartridge



PC-295T 14P

For specifications, please refer to the individual component catalogue.

TV - Rack CB-V280 (also available CB-V250 and CB-V210)

S-9900 in combination with audio rack CB-X707 (also available CB-X929 and CB-X323)

S-X1A surround sound speaker
8.7 cm enclosed type full range unit.

CP-7 speaker stand

TECHNICAL SPECIFICATIONS

CASSETTE DECK AMPLIFIERS	DC-X77Z	DC-X88Z	DC-X99Z
Amplifier Sec. Power Output (DIN MUSIC)	50W + 50W	65W + 65W	52W + 52W
Power Output (DIN 1kHz 8Ω)	33W + 33W	40W + 40W	34W + 34W
Total Harmonic Distortion (40 -20kHz/8Ω)	0.2 % at 15W	0.2 % at 16W	0.3 % at 26.5W
S/N ratio (IHF short circuit, A network phono)	72 dB	72 dB	72 dB
Graphic Equalizer (100, 330, 1 k, 3.3k, 10k, Hz)	±7 dB	±7 dB	±8 dB
Deck Sec.			
motor	DC servo 2 speeds motor X2	DC servo 2 speeds motor X2	DC servo capstan motor X2, DC reel motor X2
wow and flutter (WRMS)	0.13 %	0.09 %	0.07 %
(DIN)	-	0.25 %	0.17 %
Frequency response (- 20dB)			
normal tape ±6dB	35-14 kHz	35-14 kHz	35-14 kHz
chrome tape ±6dB	35-15 kHz	35-15 kHz	35-15 kHz
metal tape ±6dB	-	35-16 kHz	35-16 kHz
S/N ratio Dolby off	56 dB	56 dB	56 dB
Dolby B ON (at 5 kHz)	improved by 10dB	improved by 10dB	improved by 10dB
Dolby C ON (at 5 kHz)	-	-	improved by 18 dB
Consumption	210W	250W	260W
Dimensions (W x H x D) mm	360 x 190 x 283	360 x 190.5 x 285	360 x 200 x 335
Net weight	6.8 Kg	7.2 Kg	9.6 Kg
Remote control unit	No	Yes	Yes

CASSETTE DECKS	CT-X505R(BK)	CT-X707WR(BK)
Motor	DC-servo motor x1 DC-motor x1	DC-servo motor x2 DC motor x1
Wow & Flutter (WRMS)	0.075 %	0.075 %
(DIN)	± 0.19 %	±0.19 %
Frequency Response (- 20dB)		
Normal tape (± 6dB)	25-15.500 Hz	25-15.500 Hz
Chrome tape (± 6dB)	25-16.000 Hz	25-16.000 Hz
Metal tape (± 6dB)	25-16.500 Hz	25-16.500 Hz
S/N ratio Dolby off	57dB	57dB
Dolby B ON (at 5kHz)	improved by 10dB	improved by 10dB
Dolby C ON (at 5kHz)	improved by 19dB	improved by 19dB
Dimensions (W x H x D) mm	360 x 100 x 334	360 x 100 x 328
Net weight	4.3 Kg	5.4 Kg

CD PLAYER	PD-X88	PD-X99M
Frequency Response	4-20 kHz ± 1dB	4-20 kHz ± 0.5dB
S/N ratio (EIAJ)	92dB	more than 97dB
Dynamic Range (EIAJ)	92dB	more than 94dB
Channel Separation (EIAJ)	85dB	more than 92dB
Wow & Flutter (EIAJ)	unmeasurable ±0.001 % (weighted peak)	unmeasurable ±0.001 % (weighted peak)
Distortion (EIAJ)	less than 0.01 %	less than 0.004 %
Consumption	18W	23W
Dimensions (W x H x D) mm	360 x 75 x 315	360 x 93 x 315
Net weight	4.0 Kg	5.6 Kg

RACKS	AUDIO RACKS	TV RACKS
	CB-X707	**CB-V280**
Dimensions (W x H x D) mm	575 x 1100 x 465	640 x 519 x 460
Net weight	38 Kg	19 Kg
	CB-X929	**CB-V250**
Dimensions (W x H x D) mm	529 x 975 x 450	580 x 519 x 460
Net weight	31 Kg	17 Kg
	CB-X323	**CB-V210**
Dimensions (W x H x D) mm	412 x 964 x 440	508 x 485 x 460
Net weight	25 Kg	15 Kg

COLOUR TELEVISIONS	SV-2802	SV-2502	SV-2102
Screen	71 cm square tube tempered glass	63 cm square tube tempered glass	55 cm square-flat tube tempered glass
Sound	12Wx2 for 2-way internal speaker 20Wx2 for external speaker	12Wx2 for 2-way internal speaker 20Wx2 for external speaker	12Wx2 for 2-way internal speaker 20Wx2 for external speaker
Channel	99 channels, 39 programmes	99 channels, 39 programmes	99 channels, 39 programmes
Terminal	camera socket, headphone socket, antenna input SCART audio output.	camera socket, headphone socket, antenna input SCART, audio output	camera socket, headphone socket, antenna input SCART audio output.
Display	Channel, programme, stereo, mono, language I/II	Channel, programme, stereo, mono, language I/II	Channel, programme, stereo, mono, language I/II
Teletext	Built-in or optional	Built-in or optional	Built-in or optional
Dimensions (WxHxD) mm	640x586x490	581x529x480	508x475x484
Net weight	45 Kg	36.5 Kg	30 Kg

TUNERS	F-X707L(BK)	F-X77ZL	F-X88ZL	F-X99ZL
FM section (87.5-108M Hz)				
Sensitivity (DIN) - Mono (26dB S/N 75Ω)	0.9µV	1.3µV	0.9µV	0.9µV
Stereo (46dB S/N 75Ω)	18.0µV	35.4µV	31.5µV	31µV
S/N ratio(DIN): Mono/Stereo	66dB/60dB	66dB/60dB	62dB/60dB	66dB/60dB
Distortion (1kHz, Stereo)	0.4%	0.4%	0.5%	0.4%
Alternate channel selectivity (400kHz)	67dB	55dB	60dB	67dB
Stereo Separation (1 kHz)	40dB	40dB	40dB	40dB
Frequency response (± 1 dB)	20-15 kHz	30-15 kHz	30-15 kHz	30-15 kHz
MW/LW sec (530k-1600 kHz/153k-281 kHz)				
Sensitivity MW only/(MW + LW)	250µV/m, 800µV/m	250µV/m, 890µV/m	350µV/m, 1500µV/m	350µV/m, 1100µV/m
Dimensions (WxHxD) mm	360x55x330	360x56x217	360x56x215	360x55x328
Net weight	2.8 Kg	1.6 Kg	1.8 Kg	2.4 Kg

TURNTABLES	PL-X505(BK)	PL-X77Z	PL-X99
Type	fully automatic, linear tracking belt drive system	auto return belt drive system	fully automatic belt drive system
Motor	DC-servo motor	DC-servo motor	DC-servo motor
Wow & Flutter (WRMS)	0.05%	0.05%	0.05%
(DIN)	±0.065%	0.07%	±0.07%
S/N ratio (DIN-B)	70dB	68dB	68dB
Tone arm	Integrated straight pipe arm	Statically balanced pipe arm	Statically balanced pipe arm
Cartridge T4P	MM type (PC-295T)	MM type (PC—295T)	MM type 295T)
Frequency Response	10-30.000 Hz	10-30.000 Hz	10-30.000 Hz
Dimensions (WxHxD) mm	360x100x355.5	360x96.5x384	360x96.5x384
Net weight	3.6 Kg	3.1 Kg	3.4 Kg

SPEAKERS	S-323X	S-222X	S-V707X(BX)	S-X1A
Enclosure	Air suspension - Bookshelf Type	Air suspension - Bookshelf Type	Magnetically shielded Bass-reflex Bookshelf type	Air-suspension type
Speaker -Full range	-	-	-	8.7 cm
-Woofer	16x16 cm (flat & square)	16 cm cone	22 cm cone	-
-Midrange	-	-	5.2 cm cone	-
-Tweeter	6.6 cm cone	6.6 cm cone	4.2 cm cone	-
Impedance	6Ω	6Ω	6Ω	16Ω
Frequency range	50-20 kHz	60-20 kHz	35-20 kHz	150-20 kHz
Sensitivity (at 1m)	87dB/W	87dB/W	90dB/W	90dB/W
Crossover frequency	1.500 Hz	5.000 Hz	1.300 Hz/12 kHz	-
Max. music power (DIN)	70W	70W	100W	60W
Dimensions (WxHxD) mm	220x340x199	215x340x199	270x460x240	110x108x141
Net Weight	3.5 Kg	3.5 Kg	8.3 Kg	0.97 Kg

AMPLIFIERS	A-X707V(BK)	A-X909V(BK)
Power Output (DIN Music)	78W + 78W	105W + 105W
Power Output (DIN, 1 kHz, 8Ω)	45W + 45W	73W + 73W
Total Harmonic Distortion	0.05% (1 kHz/20W/8Ω)	0.05% (1 kHz/35W/8Ω)
Frequency Response Phono (Riaa Equalization)	20-20.000 Hz (±0.5dB)	20-20.000 Hz (±0.5dB)
Tuner, Tape, AUX	20-50.000 Hz (+1.-3dB)	20-50.000 Hz (+1.-3dB)
S/N ratio (short circuit IHF A network): Phono	72dB	72dB
Tuner, Tape, AUX	90dB	90dB
Dimensions (WxHxD) mm	360x100x331.5	360x100x331.5
Net weight	6.8 Kg	7.4 Kg

GRAPHIC EQUALIZER GR-X505(BK)	
Equalizer range	±10dB
Centre frequencies	7 band controls 60 Hz, 150 Hz, 400 Hz, 1kHz, 2.4kHz, 6kHz, 15kHz
Total harmonic distortion	0.03% (20-20.000 Hz all controls flat 1V output)
Gain	OdB (all controls flat)
Frequency response	5-50.000 Hz (0db-3dB)
S/N ratio (all controls flat)	106dB (IHF A short circuited 1V output)
Dimensions (WxHxD) mm	360x55x336
Net weight	2.6 Kg

SURROUND AMPLIFIER SP-X707(BK)	
Power output (1kHz, 8Ω, DIN)	35W+35W
Input sensitivity/impedance (input tape play)	150mV/50KΩ
Output level/impedance	
Output (fix)	150mV/2.2KΩ
Output (VAR)	1V/2.2KΩ
Output (surround line out)	1V/1KΩ
Output (centre)	1V/5KΩ
Dimensions (WxHxD) mm	360x75x332
Net weight	5.7 Kg

SPEAKER STAND CP-7	
Height (mm)	300
Upperstand (mm)	175x175
Bottomplate (mm)	270x330
Net weight	6.5 Kg

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